

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P321083

Luminaire Tested: **GLEON-SA9B-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38529 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

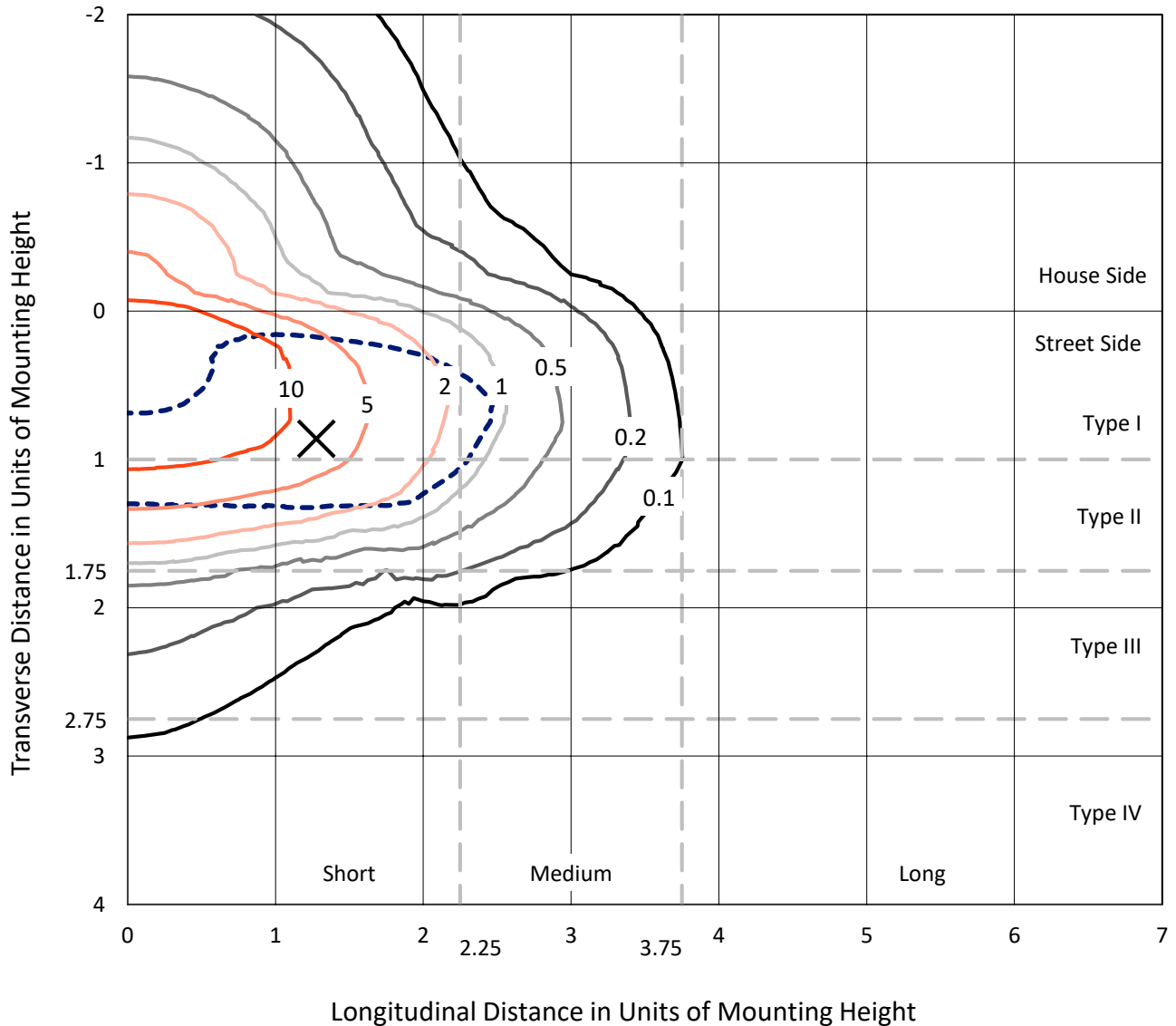
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

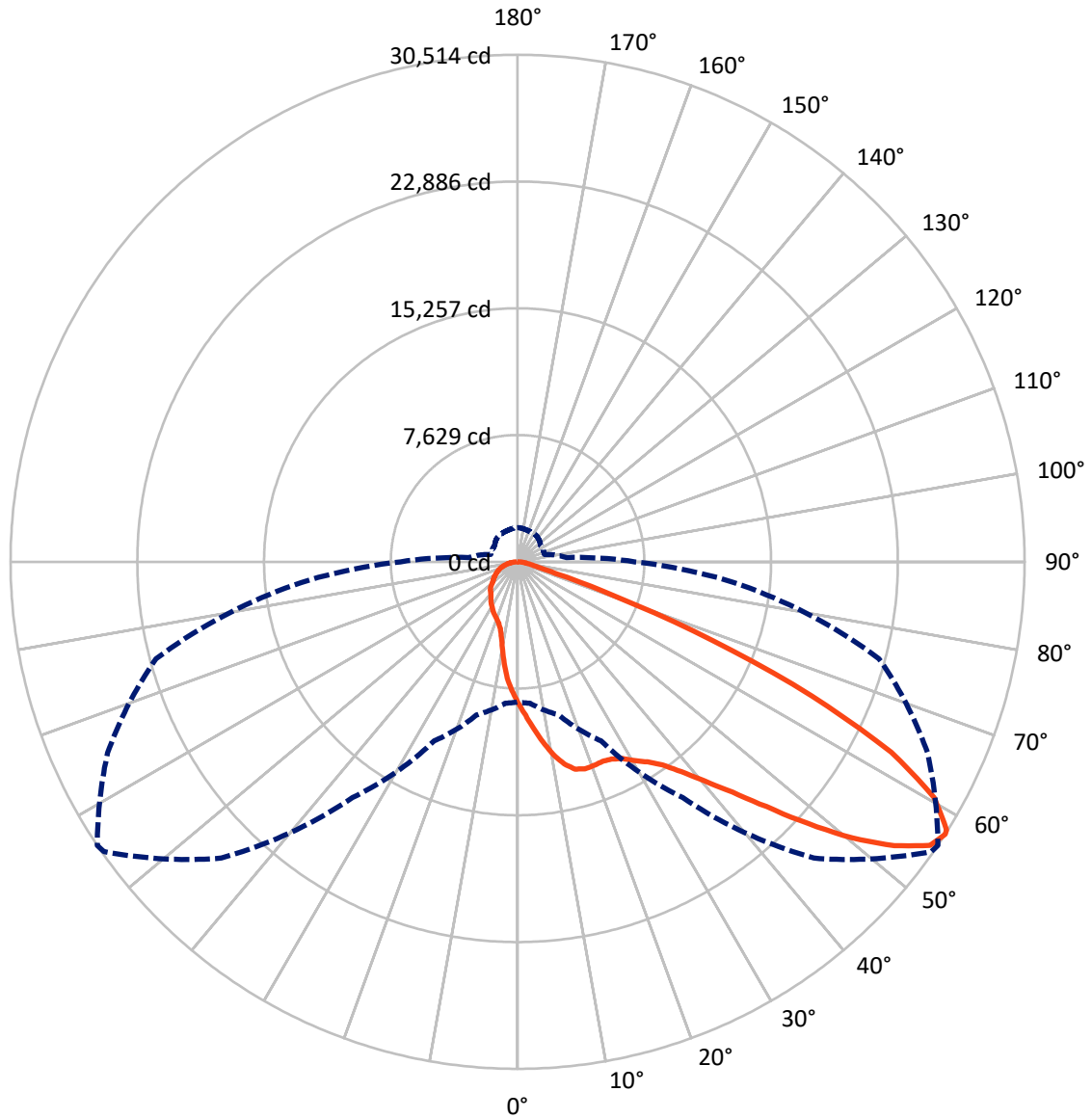
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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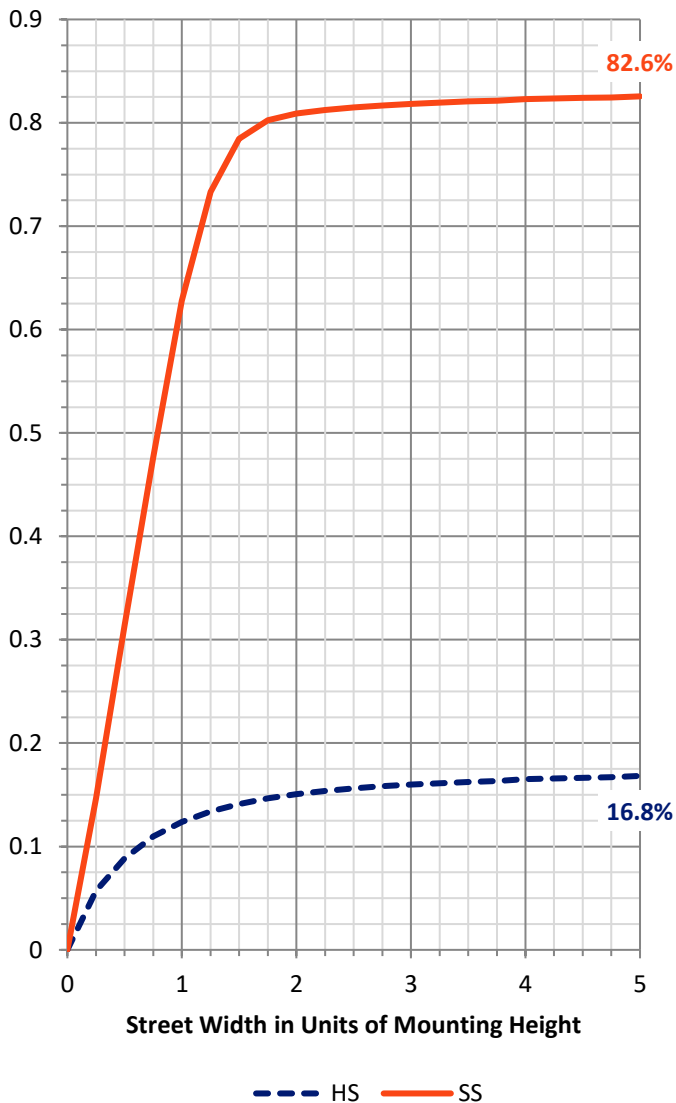
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6641.6	0.0	6641.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	31887.4	0.0	31887.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	38529.0	0.0	38529.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.3	2.1
10°-20°	2308.0	6.0
20°-30°	3759.2	9.8
30°-40°	5619.6	14.6
40°-50°	8523.8	22.1
50°-60°	9553.7	24.8
60°-70°	5642.8	14.6
70°-80°	1848.8	4.8
80°-90°	456.8	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	38529.0	100.0
0°-180°	38529.0	100.0

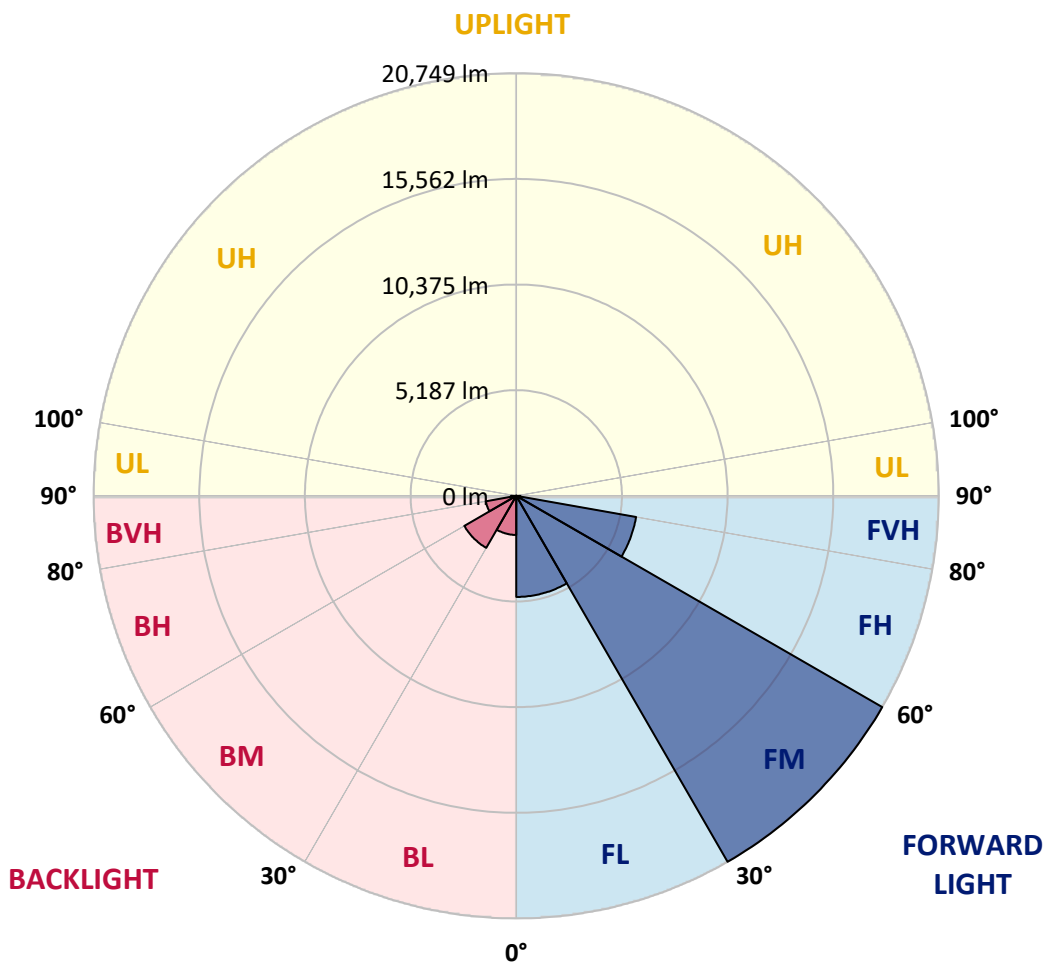


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4963.1	12.9			
FM (30°-60°)	20749.1	53.9			
FH (60°-80°)	5974.0	15.5			G3/7500
FVH (80°-90°)	201.1	0.5			G2/225
BL (0°-30°)	1920.4	5.0	B3/2500		
BM (30°-60°)	2948.0	7.7	B3/5000		
BH (60°-80°)	1517.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	255.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8
2.5°	9812.9	9903.0	9863.3	9725.5	9619.6	9470.0	9303.2	9252.8	9076.7	8879.4	8642.4
5°	11366.1	11321.1	11256.2	11041.7	10815.3	10551.8	10133.4	10067.2	9675.2	9229.0	8757.6
7.5°	12250.6	12246.6	12208.2	12082.4	11875.9	11531.6	11027.1	10949.0	10357.1	9639.5	8908.6
10°	12122.2	12112.9	12176.5	12307.5	12369.8	12298.3	11873.2	11795.1	11068.2	10093.6	9083.4
12.5°	11392.6	11397.9	11499.8	11775.3	12150.0	12600.2	12531.3	12492.9	11805.7	10607.4	9295.2
15°	10824.6	10836.5	10917.2	11156.9	11599.2	12416.1	12931.2	12944.4	12519.4	11174.1	9542.8
17.5°	10575.6	10600.8	10637.9	10806.0	11211.2	12049.3	13026.5	13098.0	13144.4	11762.0	9781.2
20°	10655.1	10678.9	10689.5	10796.7	11129.1	11826.9	12960.3	13088.8	13623.7	12315.5	10019.5
22.5°	11011.2	11025.8	11032.4	11060.2	11318.4	11890.5	12916.6	13051.7	13970.6	12812.0	10199.6
25°	11601.8	11591.2	11548.8	11513.1	11686.5	12142.0	13017.3	13145.7	14252.7	13262.2	10317.4
27.5°	12308.9	12295.6	12213.5	12115.6	12214.9	12534.0	13307.2	13409.2	14505.6	13683.3	10377.0
30°	13157.6	13123.2	12968.3	12851.8	12890.2	13121.9	13785.2	13877.9	14896.2	14161.3	10435.3
32.5°	14138.8	14101.7	13877.9	13684.6	13684.6	13877.9	14277.8	14354.6	15227.2	14701.5	10529.3
35°	15367.6	15321.2	15029.9	14705.5	14614.1	14712.1	14949.1	15003.4	15823.0	15382.1	10700.1
37.5°	16816.1	16753.9	16376.5	15942.2	15742.3	15737.0	15907.8	16019.0	16775.1	16275.9	10990.1
40°	18268.7	18225.0	17895.3	17553.6	17161.7	17035.9	17299.4	17333.8	18019.7	17385.5	11360.8
42.5°	19391.5	19383.6	19322.6	19367.7	18966.5	18712.2	18918.8	18946.6	19539.8	18586.4	11755.4
45°	19984.7	19997.9	20293.2	20947.3	21095.6	20910.3	21012.2	21020.2	21277.0	19798.0	12116.9
47.5°	19509.3	19578.2	20325.0	21788.1	23002.3	23618.0	23448.6	23546.5	22961.3	20838.7	12400.2
50°	17656.9	17741.7	19012.8	21413.4	23892.1	26238.4	26149.7	26127.2	24319.8	21601.4	12553.8
52.5°	15362.3	15428.5	16477.2	19465.7	23239.3	27687.0	28501.3	28384.8	25527.4	22172.1	12583.0
55°	11867.9	11971.2	12976.2	15578.1	20599.1	27133.5	30230.6	30126.0	26627.7	22471.4	12548.5
57°	8437.2	8545.8	9544.1	11889.1	17328.5	25217.6	30402.8	30514.0	27222.3	22521.7	12586.9
57.5°	7528.9	7640.1	8629.2	10906.6	16309.0	24525.1	30254.5	30439.8	27329.5	22513.7	12608.1
60°	3790.9	3833.3	4463.6	6088.2	10309.5	19827.1	28319.9	28797.9	27426.2	22124.5	12699.5
62.5°	2356.9	2326.5	2306.6	2804.5	5015.7	13148.4	24327.8	25248.0	25576.4	21181.7	12478.4
65°	2072.2	2015.3	1796.8	1757.1	2215.2	6386.2	18320.3	19465.7	21623.9	19696.0	11951.4
67.5°	1946.4	1890.8	1644.5	1496.2	1497.6	2531.7	11374.1	12663.7	16845.3	17184.2	10708.0
70°	1816.7	1766.4	1536.0	1361.2	1275.1	1402.2	5232.9	6211.4	10980.8	13507.2	8949.6
72.5°	1649.8	1615.4	1396.9	1216.9	1125.5	1050.0	2003.4	2366.2	6357.0	9071.4	6215.3
75°	1475.1	1443.3	1256.6	1084.4	973.2	826.2	1128.1	1215.5	3229.5	4641.0	3060.0
77.5°	1283.1	1264.5	1117.5	958.7	869.9	684.6	798.4	840.8	1385.0	1990.1	1534.6
80°	1020.9	1056.6	977.2	854.0	772.0	548.2	565.4	593.2	806.4	971.9	871.3
82.5°	664.7	726.9	765.3	693.8	635.6	431.7	406.5	418.4	525.7	593.2	378.7
85°	276.7	311.2	503.2	454.2	422.4	315.1	272.8	278.1	325.7	337.6	154.9
87.5°	123.1	131.1	221.1	207.9	178.8	108.6	116.5	127.1	173.5	164.2	59.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8	8545.8
2.5°	8553.7	8442.5	8251.8	8041.3	7869.2	7731.4	7592.4	7497.1	7385.9	7326.3	7295.8
5°	8560.3	8341.9	7940.7	7528.9	7160.8	6824.4	6504.0	6257.7	6027.3	5902.9	5868.4
7.5°	8588.1	8259.8	7610.9	6933.0	6278.9	5681.7	5220.9	4932.3	4724.4	4631.7	4605.2
10°	8610.6	8163.1	7203.1	6199.5	5309.7	4704.5	4347.0	4185.5	4114.0	4102.1	4090.2
12.5°	8663.6	8063.8	6774.1	5434.1	4556.2	4137.8	4013.4	4002.8	4022.6	4051.8	4051.8
15°	8747.0	7965.8	6284.2	4777.4	4076.9	3929.9	3955.1	4013.4	4067.6	4112.7	4119.3
17.5°	8807.9	7845.3	5757.2	4251.7	3821.4	3861.1	3951.1	4033.2	4088.8	4132.5	4136.5
20°	8851.6	7658.6	5194.5	3850.5	3674.4	3797.5	3910.1	3982.9	4021.3	4065.0	4071.6
22.5°	8829.1	7408.4	4695.3	3563.2	3555.2	3704.8	3812.1	3899.5	3870.4	3828.0	3855.8
25°	8720.5	7064.1	4181.5	3348.7	3429.4	3580.4	3712.8	3654.5	3556.5	3538.0	3548.6
27.5°	8527.2	6624.5	3706.2	3150.0	3283.8	3465.2	3457.2	3399.0	3364.5	3340.7	3355.3
30°	8319.3	6147.8	3290.4	2976.6	3122.2	3271.9	3241.4	3240.1	3205.7	3167.3	3185.8
32.5°	8114.1	5668.5	2960.7	2833.6	3000.4	3020.3	3086.5	3106.3	3038.8	2958.0	2952.8
35°	7935.4	5215.6	2710.4	2703.8	2853.4	2856.1	2952.8	2924.9	2756.8	2673.4	2673.4
37.5°	7801.6	4764.1	2519.8	2587.3	2660.1	2729.0	2778.0	2662.8	2635.0	2588.6	2587.3
40°	7743.4	4366.9	2400.6	2498.6	2523.7	2611.1	2485.3	2530.4	2543.6	2519.8	2519.8
42.5°	7682.5	4021.3	2297.3	2431.1	2427.1	2415.2	2351.6	2409.9	2462.8	2464.2	2460.2
45°	7621.5	3723.4	2206.0	2286.7	2342.3	2213.9	2225.8	2288.1	2362.2	2388.7	2388.7
47.5°	7554.0	3487.7	2122.5	2134.5	2220.5	2134.5	2125.2	2172.9	2260.2	2302.6	2311.9
50°	7405.7	3275.8	2027.2	2000.7	2024.6	2053.7	2061.6	2084.1	2180.8	2248.3	2264.2
52.5°	7200.5	3086.5	1905.4	1877.6	1877.6	1987.5	2024.6	2031.2	2113.3	2194.0	2209.9
55°	7029.7	2966.0	1779.6	1774.3	1769.0	1917.3	1980.9	1991.5	2048.4	2111.9	2119.9
57°	7041.6	2956.7	1682.9	1688.2	1686.9	1845.8	1939.8	1962.3	1991.5	2045.7	2055.0
57.5°	7048.2	2963.3	1661.8	1664.4	1663.1	1825.9	1927.9	1953.1	1975.6	2032.5	2041.8
60°	7147.5	2980.6	1575.7	1546.6	1553.2	1720.0	1860.4	1892.1	1906.7	1982.2	1994.1
62.5°	7000.5	2903.8	1506.8	1436.7	1436.7	1608.8	1766.4	1816.7	1839.2	1941.1	1961.0
65°	6574.2	2687.9	1426.1	1312.2	1325.4	1497.6	1653.8	1735.9	1770.3	1897.4	1918.6
67.5°	5916.1	2437.7	1340.0	1201.0	1214.2	1381.0	1537.3	1626.0	1680.3	1849.8	1867.0
70°	5059.4	2131.8	1223.5	1083.1	1099.0	1253.9	1399.6	1500.2	1581.0	1804.8	1810.1
72.5°	3730.0	1747.8	1060.6	953.4	970.6	1105.6	1260.5	1377.1	1485.6	1692.2	1689.6
75°	2217.9	1366.5	880.5	822.3	834.2	960.0	1134.8	1276.4	1439.3	1648.5	1673.7
77.5°	1345.3	1028.8	717.7	688.5	703.1	831.5	1044.7	1195.7	1419.4	1554.5	1546.6
80°	813.0	734.9	573.3	554.8	569.4	711.0	966.6	1134.8	1240.7	1328.1	1328.1
82.5°	425.0	448.9	421.1	406.5	426.4	577.3	879.2	990.4	1096.4	941.4	879.2
85°	173.5	234.4	255.6	254.2	266.1	399.9	758.7	847.4	707.1	671.3	687.2
87.5°	58.3	99.3	124.5	107.3	112.5	251.6	525.7	409.1	485.9	339.0	321.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)